	Applicat	tion No.	Applicant(s)		
Notice of Allowability	10/662,730		BANGALORE ET AL	BANGALORE ET AL.	
		Examiner Art Unit			
	Lamont	M Spooner	2626		
	Lamont	M. Spooner	2020		
The MAILING DATE of this communication appearance All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIOF of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REM or other a I GHTS . T	AINS) CLOSED in to ppropriate commun his application is sul	his application. If not included ication will be mailed in due cour	se. THIS	
1. This communication is responsive to the amendment filed 9/25/07.					
2. The allowed claim(s) is/are <u>1-20</u> .				•	
 3. ☐ Acknowledgment is made of a claim for foreign priority ur a) ☐ All b) ☐ Some* c) ☐ None of the: 1. ☐ Certified copies of the priority documents have 			(f).		
2. Certified copies of the priority documents have			No		
3. Copies of the certified copies of the priority do	•	• •		from the	
International Bureau (PCT Rule 17.2(a)).					
* Certified copies not received:					
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.			reply complying with the require	ments	
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.					
5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.					
(a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached					
1) hereto or 2) to Paper No./Mail Date					
(b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date					
Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).					
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.					
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	•				
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)		5 🗆 Notice of Info	rmal Patent Application		
2. Notice of Preferences Cited (FTO-092)		6. ☐ Interview Sun	• • • • • • • • • • • • • • • • • • • •		
	•	Paper No./M	ail Date		
 Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 		7. L Examiner's A	mendment/Comment		
Examiner's Comment Regarding Requirement for Deposit of Biological Material	•	8. Examiner's S	tatement of Reasons for Allowan	ce	
•		9. Other			
			•		
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DETAILED ACTION

Allowable Subject Matter

- 1. Claims 1-20 are allowed.
- 2. The following is an examiner's statement of reasons for allowance:

The instant application is deemed to be directed to a non-obvious improvement over the invention patented in Caid et al. (Caid, US 5,794,178), Gallant (US 5,325,29) and Sadler (US 6,178,396). Caid teaches the relationship among context vectors based on word proximity and co-importance, and forming a tree of clustered nodes from records. Gallant teaches determining context vectors for each word in a dictionary of context vectors, and a cluster tree for the vectors. Sadler teaches common relations between words and high frequency relations between words. Determining the statistical significance between the common relations. Regarding claims 1, 2 and 13, applicants improvement comprises generating frequency vectors for each non-context tokens in a corpus based upon counted occurrences of a predetermine relationship of the non-context tokens to context tokens; and clustering the non-context tokens into a cluster tree based upon the frequency vectors according to a lexical correlation among the non-context tokens, wherein the above

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references, nor combination thereof teach or make obvious the improvement.

- 3. Claims 3-12, and 14-20 are allowed, as their parent claims have been deemed allowable.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

- 5. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.
 - Bahl et al. (US 5,195,167) teaches determining contextual sets and similarities between features in the sets.
 - Ushioda (US 6,178,396) teaches word/token clustering, word
 classifying, words arranged in order of frequency of appearance
 and clustered into classes.
- 6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Lamont M. Spooner whose

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telephone number is 571/272-7613. The examiner can normally be reached on 8:00 AM - 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Patrick Edouard can be reached on 571/272-7603. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

lms 10/29/07 PATRICK N. EDOUARD
PERVISORY PATENT EXAMINER